

Fig. 1: Portable IR transceivers and Location IR transceivers

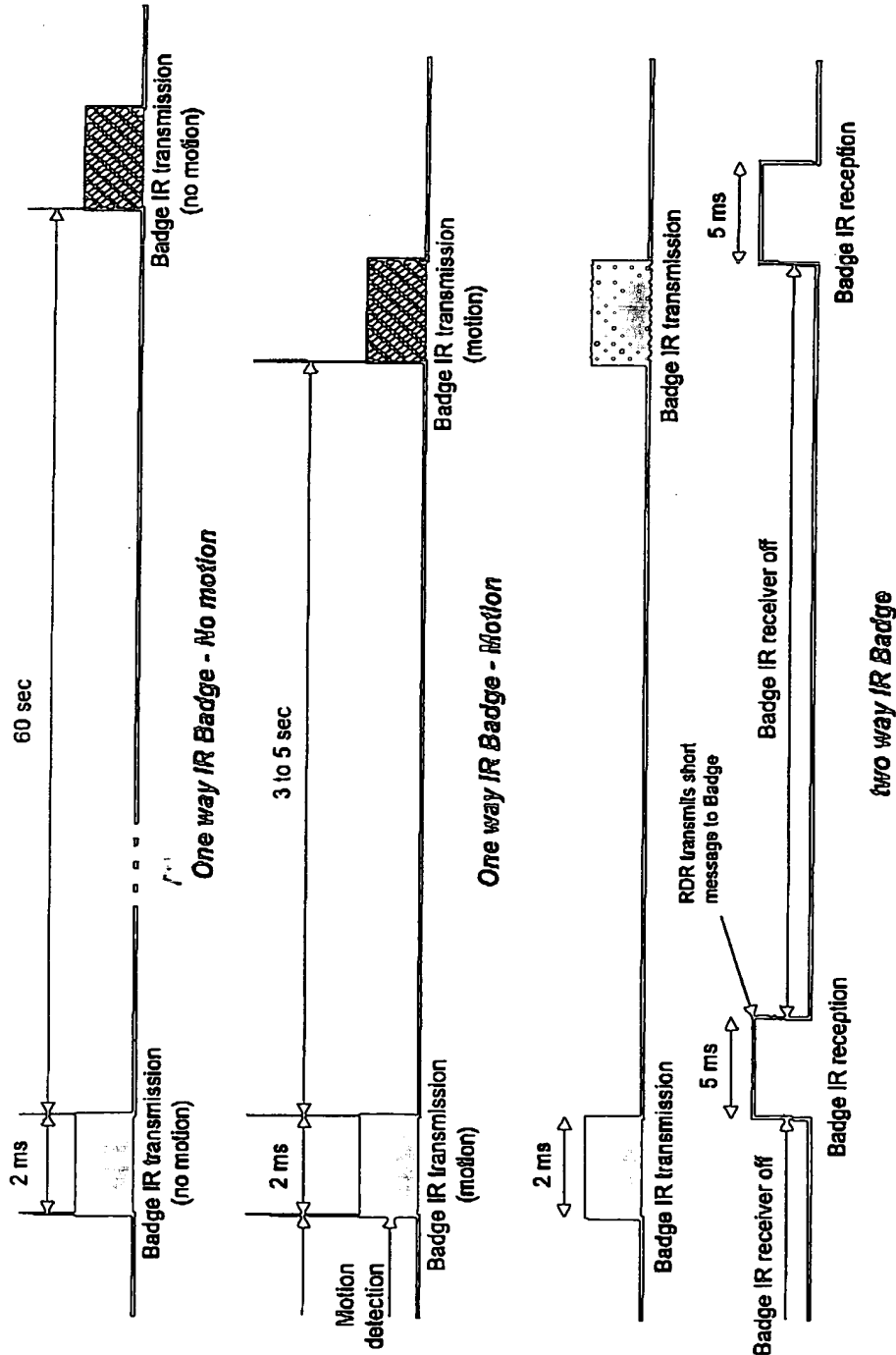
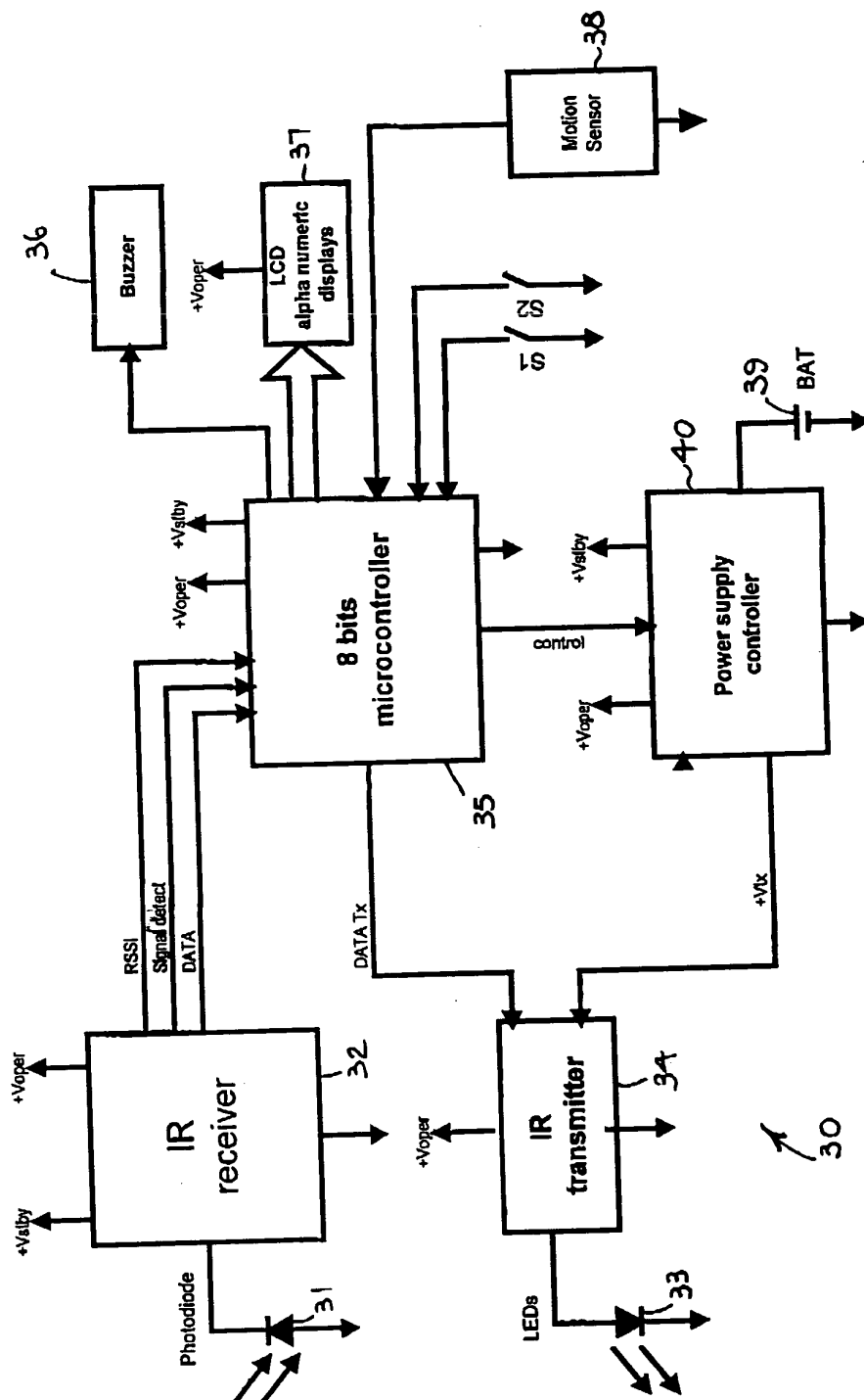
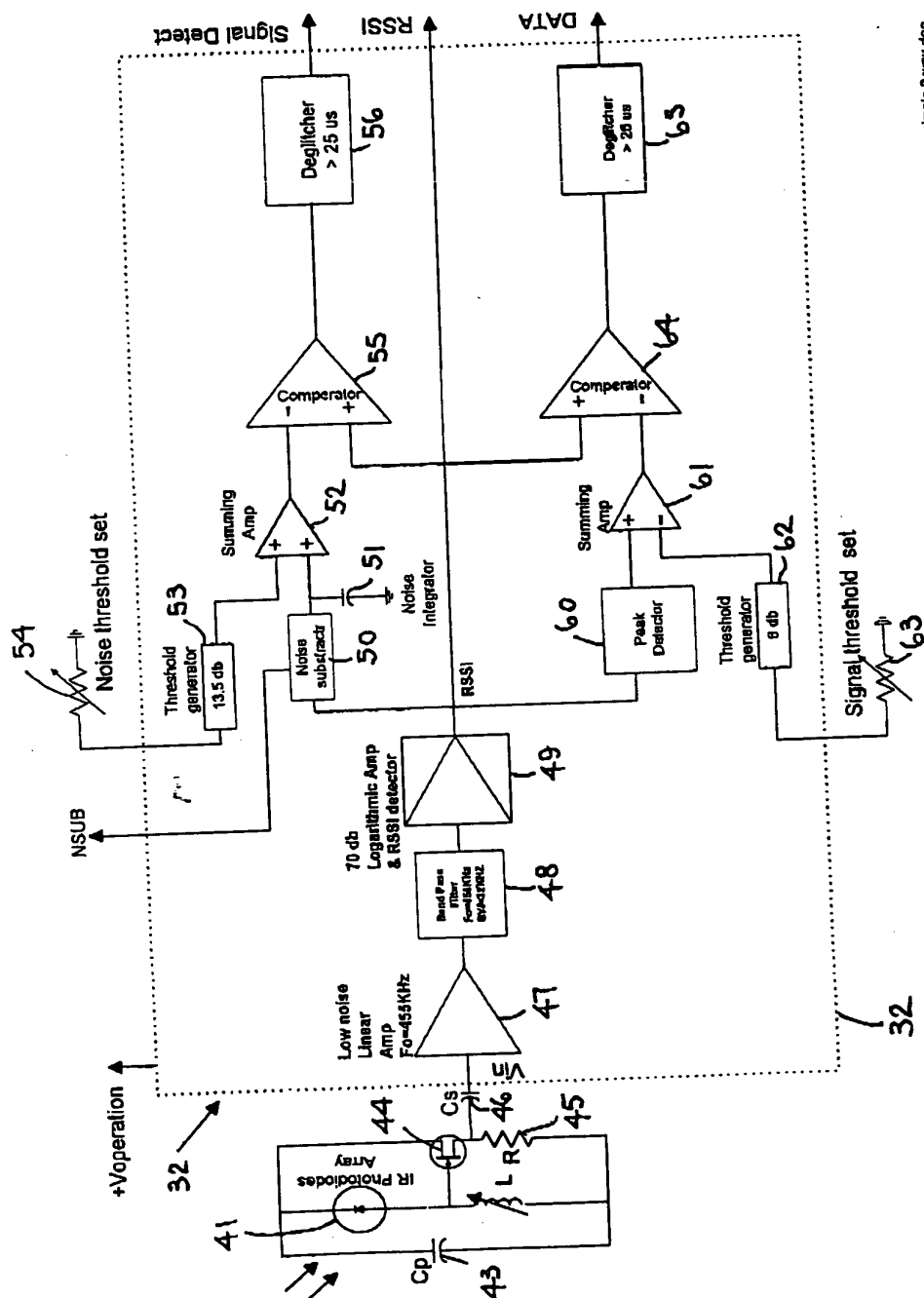


Fig 2: One way and two way IR badge operation



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Fig. 3 : Two way IR Badge - Block Diagram



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Fig. 4: Block diagram of IR receiver

Fig 5: Timing Diagram of the DATA Decoding Circuit

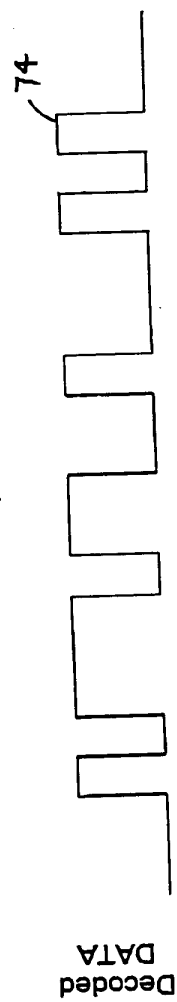


Fig. 5a

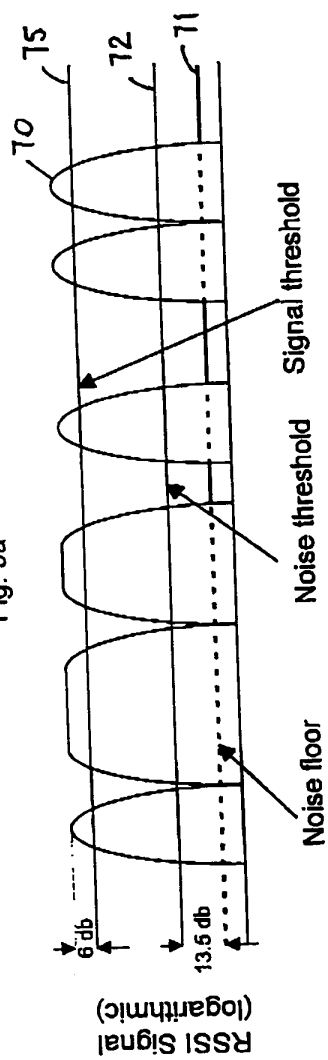


Fig. 5b

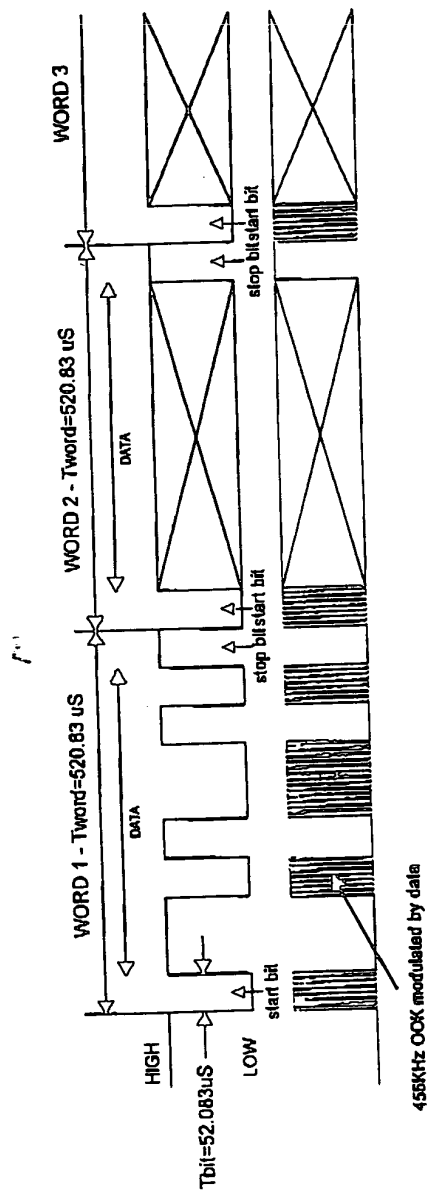


Fig 6a : IR Modulation Scheme (ASK OOK) of a word

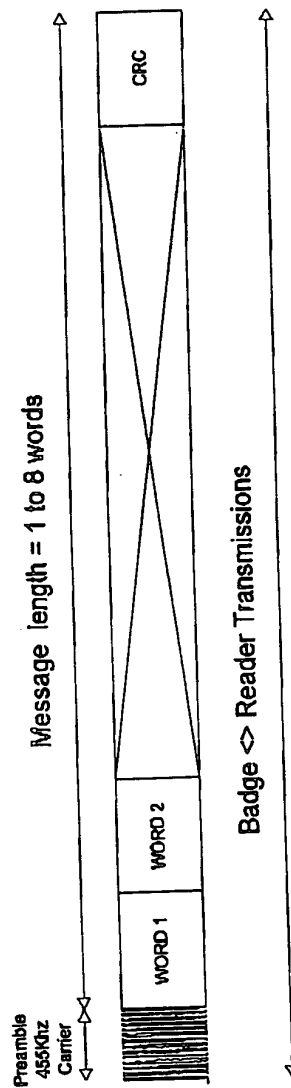


Fig 6b: IR Transmission Protocol

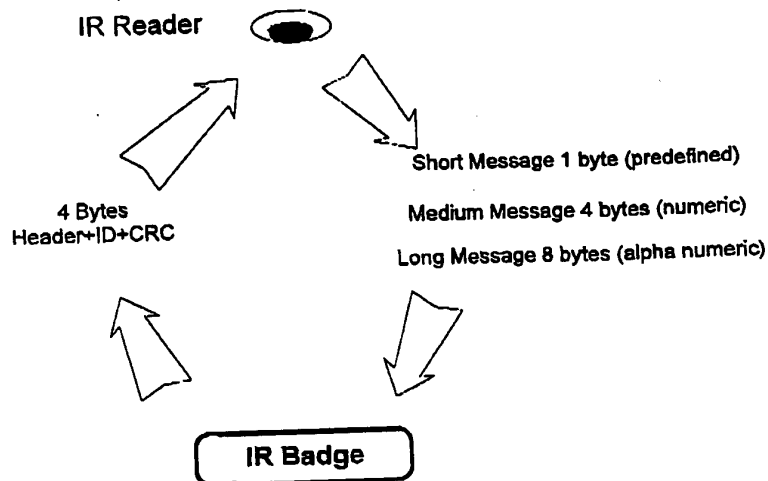


Fig. 7 : Up and Down Link

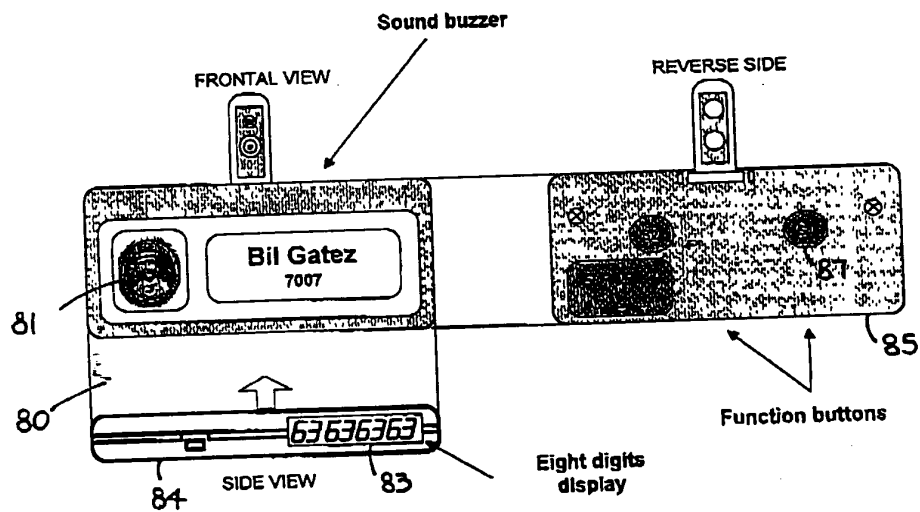


Fig 8 : Two way communication IR Badge

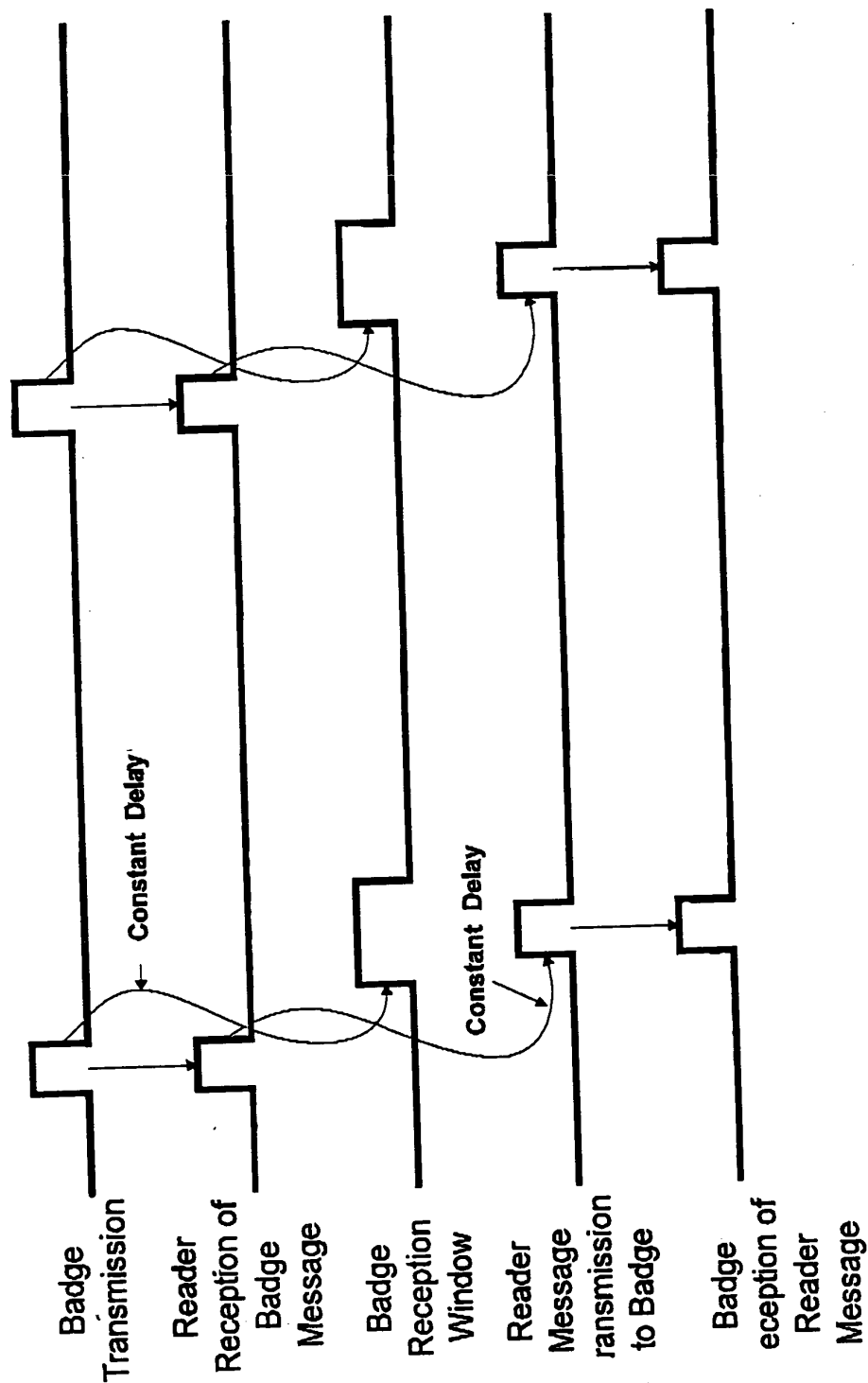
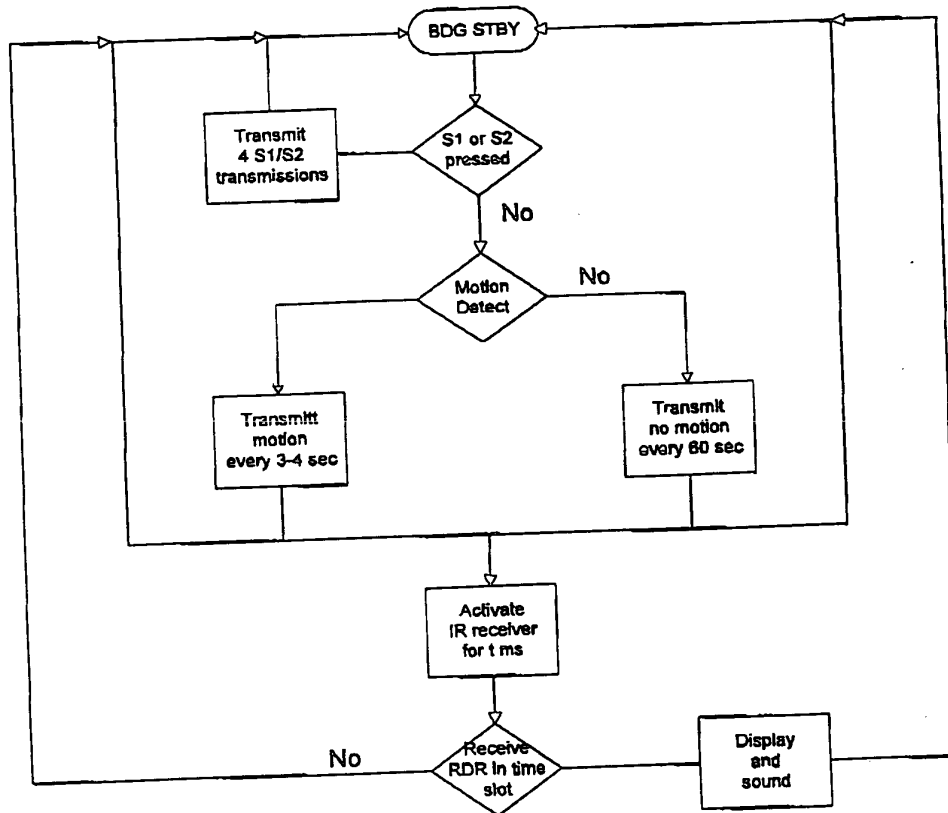


Fig 9 : Badge Reader Transmissions Timing



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Fig 10: Two way Badge operation Flow Chart

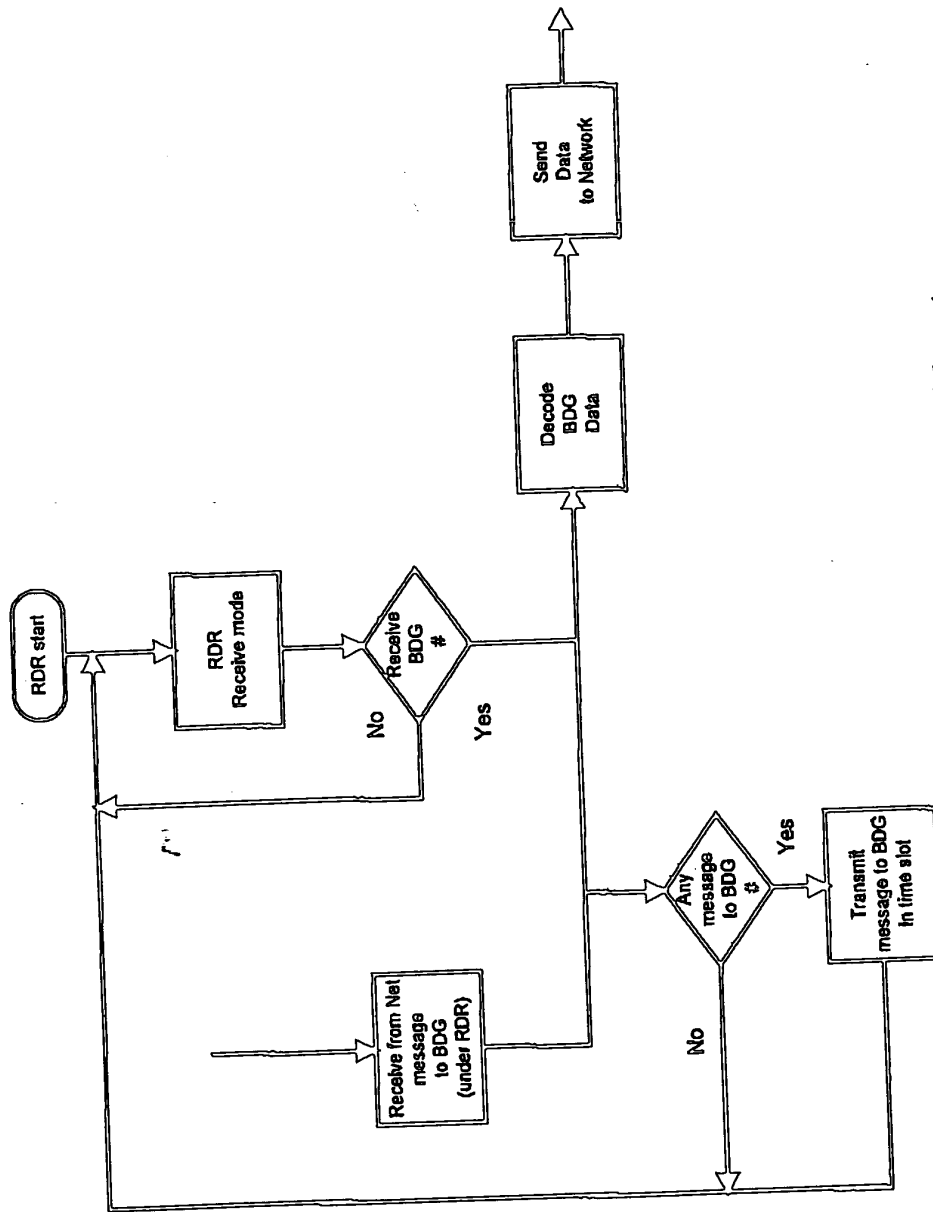


Fig 11: Two way RDR operation Flow Chart